



MIT.8607L

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Walpole et al.

GROUP: 2874

SERIAL NO: 09/903,099

EXAMINER: E. P. Cherry

FILED: July 11, 2001

FOR: SLAB-COUPLED OPTICAL WAVEGUIDE LASER AND AMPLIFIER

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

AMENDMENT

In response to the Office Action mailed November 5, 2002, please amend the above-identified application as follows:

IN THE CLAIMS:

Please add claims 56-96 as follows:

1 56. A laser and optical amplifier device comprising:

02/19/2003 AJOHNS01 00000004 190079 09903099

01 FC:1201 84.00 CH
08 FC:1202 738.00 CH
2 a waveguide having a first heightened region in a first layer, the first heightened region

3 forming a channel along a longitudinal axis within which a lowest order spatial mode in both

4 lateral and transverse directions is supported;

5 an active region, near the first heightened region of the waveguide, is pumped to

6 provide gain for said lowest order spatial mode in said waveguide; and

7 first and second lateral regions, extending parallel to and on each side of said first

8 heightened region along the longitudinal axis, into which all higher order spatial modes extend

9 laterally and are suppressed, wherein the cross-sectional dimensions of the lowest order spatial



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SMU 2874/4
MIT8607
PATENT
✓ # 8

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Examiner: Unknown

For: SLAB-COUPLED OPTICAL WAVEGUIDE LASER AND AMPLIFIER

Box Non-Fee Amendment
Assistant Commissioner of Patents
Washington, D.C. 20231

AMENDMENT TRANSMITTAL

1. Transmitted herewith is an amendment for this application.

STATUS

2. Applicant is

☒ a small entity - verified statement:

☐ attached.

☒ already filed.

☐ other than a small entity.

RECEIVED
FEB 13 2003
TECHNOLOGY CENTER 2800

CERTIFICATE OF MAILING (37 CFR 1.8(a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United State Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Date:

02/04/2003

Emily C. Porell

(Type or print name of person mailing letter)

Emily C. Porell
(Signature of person mailing paper)

Page 1 of 4

02/11/2003 SHINASS1 00000013 09903099

01 FC:1252

410.00 OP

EXTENSION OF TERM

NOTE: "Extension of Time in Patent Cases (Supplement Amendments)--If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of December 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 CFR 1.645 for extensions of time in interference proceedings and 37 CFR 1.550(c) for extensions of time in reexamination proceedings.

3. The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply

(complete (a) or (b) as applicable)

(a) X Applicant petitions for an extension of time under 37 CFR 1.136 (fees: 37 CFR 1.17(a)-(d) for the total number of months checked below:

Extension (months)	Fee for other than <u>small entity</u>	Fee for <u>small entity</u>
<u> </u> one month	\$ 110.00	\$ 55.00
<u>X</u> two months	\$ 410.00	\$195.00
<u> </u> three months	\$ 890.00	\$445.00
<u> </u> four months	\$1,390.00	\$695.00
<u> </u> fifth month	\$1,890.00	\$945.00

Fee \$ 410.00

If an additional extension of time is required please consider this a petition therefor.
(check and complete the next item, if applicable)

 An extension for months has already been secured and the fee paid therefor of
\$ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ 410.00

OR

(b) Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

FEE FOR CLAIMS

4. The fee for claims (37 CFR 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY			OTHER THAN A SMALL ENTITY	
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT ADDIT. EXTRA	RATE	FEE	OR	ADDIT. RATE	FEE
TOTAL	54	MINUS	55	=	x 11= \$	x22=	\$	
INDEP.	5	MINUS	6	=	x 41= \$	x82=	\$	
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+135=	\$	+\$270=	\$	
				TOTAL ADDIT. FEE	\$	OR	TOTAL ADDIT. FEE	\$ 0.00

If the entry in Col. 1 is less than entry in Col. 2, write "0" in Col. 3.
 If the "Highest No. Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 If the "Highest No. Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest No. Previously Paid For" (Total or Indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

WARNING: "After final rejection or action (1.113) amendments may be made cancelling claims or complying with any requirement of form which has been made." 37 CFR 1.116(a) (emphasis added).

(complete (c) or (d) as applicable)

- (c) X No additional fee for claims is required.

OR

- (d) Total additional fee for claims required \$_____.

FEE PAYMENT

5. X Attached is a check in the sum of \$ 410.00.
 Charge Account No. _____ the sum of \$_____.
 A duplicate of this transmittal is attached.

FEE DEFICIENCY

NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).

6. X If any additional extension and/or fee is required, charge Account No. 19-0079

AND/OR

X If any additional fee for claims is required, charge Account No. 19-0079

Pete Steil Reg. No. 47,259
SIGNATURE OF ATTORNEY

Reg. No.: 33,298

Tel. No.: (617) 426-9180
Extension 112

Matthew E. Connors
Type or print name of attorney

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